

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/606,632	06/26/2003	Masaya Takaoka	03260CIP/HG	4979
1933	7590 01/25/2006	i	EXAMINER	
FRISHAUF, HOLTZ, GOODMAN & CHICK, PC 220 Fifth Avenue			WEDDINGTON, KEVIN E	
16TH Floor	cnuc		ART UNIT	PAPER NUMBER
NEW YORK, NY 10001-7708			1614	

DATE MAILED: 01/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/606,632	TAKAOKA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Kevin E. Weddington	1614					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence addres	is				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (6(a). In no event, however, may a reply be time (ill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	lely filed the mailing date of this commu D (35 U.S.C. § 133).	·				
Status							
1) Responsive to communication(s) filed on 12 Oc	ctober 2005						
<u> </u>	action is non-final.						
· <u> </u>		secution as to the me	rits is				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) 2,4,6 and 7 is/are pending in the appli	cation.						
· · · · · · · · · · · · · · · · · · ·	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) 2, 4 and 7 is/are rejected.							
7)⊠ Claim(s) <u>6</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.	.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-1	52.				
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreigna) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
1. Certified copies of the priority documents							
2. Certified copies of the priority documents	• •						
3. Copies of the certified copies of the prior	•	d in this National Stat	je				
application from the International Bureau							
* See the attached detailed Office action for a list of	or the certified copies not receive	a.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da	ite atent Application (PTO-152	١				
Paper No(s)/Mail Date	6) Other:	Tiener (Philosophi (1 10-102	,				

Art Unit: 1614

The allowance of claims 2, 4, 6 and 7 is withdrawn so that a new rejection can be made.

Claims 2, 4, 6 and 7 are presented for examination.

Applicants' amendment filed October 12, 2005 has been received and entered.

Claim Objections

Claim 6 is objected to as being dependent upon a rejected base claim 4, but would be allowable if rewritten in independent form including all of the limitations of the base claim 4 and any intervening claims.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 2, 4 and 7 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a pharmaceutical composition comprising a diuretic and an insulin sensitizer, wherein the diuretic is an ENaC inhibitor (amiloride) and an insulin sensitizer (5-[4-(6-methyoxy-1-methyl-1H-benzimidazol-2-ylmethoxy)benzyl]thiazolidine-2,4-dione), does not reasonably provide enablement for pharmaceutical compositions comprising all other insulin sensitizers as disclosed in claims 2 and 7, and other diuretics such as ENaC inhibitors as disclosed in claim 4. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims.

Application/Control Number: 10/606,632 Page 3

Art Unit: 1614

In this regard, the application disclosure and claims have been compared per factors indicated in the decision <u>In re Wands</u>, 8 USPQ2d 1400 (Fed. Cir., 1988) as to undue experimentation.

The factors include:

- 1) the quantity of experimentation necessary
- 2) the amount of direction or guidance provided
- 3) the presence or absence of working examples
- 4) the nature of the invention
- 5) the state of the art
- 6) the relative skill of those in the art
- 7) the predictability of the art and
- 8) the breadth of the claims

The instant specification fails to provide guidance that would allow the skilled artisan background sufficient to practice that instant invention without resorting to undue experimentation in view of further discussion below.

The nature of the invention, state of the prior art, relative skill of those in the art and the predictability of the art

The claimed invention relates to a pharmaceutical composition comprising a diuretic and an insulin sensitizer in a ratio of amount by weight of 1:200 to 200:1 and wherein said diuretic is amiloride and said insulin sensitizer comprises one or more compounds selected from the group consisting of troglitazone and pioglitazone, rosiglitazone, JTT-501, etc... as disclosed in claim 2.

Application/Control Number: 10/606,632

Art Unit: 1614

The relative skill of those in the art is generally that of a Ph.D. or M.D.

The present invention is unpredictable unless experimentation is shown for compositions comprising amiloride and other insulin sensitizers or compositions comprising other diuretics (ENaC inhibitors) and 5-[4-(6-methyoxy-1-methyl-1H-benzimidazol-2-ylmethoxy)benzyl]thiazolidine-2,4-dione.

The breadth of the claims

The claims are very broad and inclusive to all ENaC inhibitors and all insulin sensitizers.

The amount of direction or guidance provided and the presence or absence of working examples

The working examples as stated in the applicants' response dated January 14, 2005 shows in Example 2, unexpected results in the combination of amiloride with compound A, (5-[4-(6-methyoxy-1-methyl-1H-benzimidazol-2-ylmethoxy)benzyl]thiazolidine-2,4-dione).

The claims do not recite this critical limitation.

The quantity of experimentation necessary

Applicants have failed to provide guidance as to how amiloride in combination with other insulin sensitizers into pharmaceutical compositions and other ENaC inhibitors in combination with compound A (5-[4-(6-methyoxy-1-methyl-1H-benzimidazol-2-ylmethoxy)benzyl]thiazolidine-2,4-dione) into pharmaceutical compositions that are effective to treat diabetes or edema. Therefore, undue

Application/Control Number: 10/606,632 Page 5

Art Unit: 1614

experimentation would be required to practice the invention as it is claimed in its current scope.

Claims 2, 4 and 7 are not allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin E. Weddington whose telephone number is (571)272-0587. The examiner can normally be reached on 11:00 am-7:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Low can be reached on (571)272-0951. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin E. Weddingtor Primary Examiner Art Unit 1614

K. Weddington January 22, 2006